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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,895	05/13/2005	Hossein Karimzadeh	38259	1912
<div>116      7590      07/19/2007</div> <div>PEARNE &amp; GORDON LLP</div> <div>1801 EAST 9TH STREET</div> <div>SUITE 1200</div> <div>CLEVELAND, OH 44114-3108</div>				
			EXAMINER	
			BELL, BRUCE F	
			ART UNIT	PAPER NUMBER
			1745	
			MAIL DATE	DELIVERY MODE
			07/19/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/534,895

**Applicant(s)**

KARIMZADEH ET AL.

**Examiner**

Bruce F. Bell

**Art Unit**

1745

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 29-32 is/are allowed.
- 6) ☒ Claim(s) 1-4, 7, 9-11, 13-16, 19 and 21-27 is/are rejected.
- 7) ☒ Claim(s) 5, 6, 8, 12, 17, 18 and 20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### ***Specification***

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

#### **Arrangement of the Specification**

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
- (c) BRIEF SUMMARY OF THE INVENTION.
- (d) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (e) DETAILED DESCRIPTION OF THE INVENTION.
- (f) CLAIM OR CLAIMS (commencing on a separate sheet).
- (g) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).

Applicant is requested to place the above Section Headings prior to each section of the instant specification.

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1- 4, 7, 9-11, 13-16, 19, 21-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doremus et al (3,616,422).

Doremus et al disclose a galvanic anode for cathodic protection of large diameter pipelines. The anode consists of a pair of semi-cylindrical segments constructed of a galvanic metal and having completely embedded within the galvanic metal steel core or armature sections adapted to be connected together to join the anode sections into a bracelet about the pipe. See abstract. Suitable materials for the anode are zinc, aluminum, magnesium and alloys thereof. See col. 1, lines 56-58. The core is enclosed with the body of the anode metal which is cast about the core during forming of the anode segments. See col. 2, lines 2-4. Short bonding cables are secured to the completed anode bracelets at the joints between the core segments and are bonded to the pipe metal to complete the protective circuit. See col. 2, lines 23-27 and Figures 2 and 3.

Doremus et al does not disclose the weight of the castings.

The subject matter as a whole would have been within the ability of one having ordinary skill in the art at the time the instant invention was made because even though the prior art of Doremus et al does not disclose the weight of the castings, one would realize that since these castings are used on large diameter pipelines that these castings would in fact have weights of 10 Kg or higher due to the size of the pipelines being protected. Doremus et al shows that one surface of the anode segment is protected by being placed adjacent to the pipe and that each segment is adjacent to the next when mated on the pipeline and that electrical connections to the electrical connector are made between the anode segments. The size and/or shape of the sacrificial anode are within the ability of the person having ordinary skill in the art and

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would be dependent upon the shape of the structure which is being protected. The manner in which the sacrificial anode is cooled is conventional in the art with known methods of cooling and chilling to form the casting being used. Therefore, the prior art of Doremus et al renders the applicants instant invention as obvious for the reasons set forth above.

***Allowable Subject Matter***

3. Claims 5, 6, 8, 12, 17, 18, 20, 28-32 are allowable over the prior art of record.
4. Claims 5, 6, 8, 12, 17, 18, 20, 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach and/or suggest a composite anode being made which has a waterproof mastic or resin coat on the surface of each casting to join the castings together and also around its electrical connector. A sacrificial anode being made of magnesium and a small amount of manganese is also not taught and/or suggested.

***Response to Arguments***

6. Applicant's arguments with respect to claims 1-4, 7, 9-11, 13-16, 21-23 and 27 have been considered but are moot in view of the new ground(s) of rejection.


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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce F. Bell whose telephone number is 571-272-1296. The examiner can normally be reached on Monday-Friday 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BFB  
July 16, 2007

  
Bruce F. Bell  
Primary Examiner  
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